

The time to reduce impacts to below ARARs could be shortened with an active remedial approach. However, the ground water does not represent an unacceptable risk and a shorter timeframe is not warranted at this time. At some time in the future should it be determined that VOC concentrations are not declining, then an active remedial action can be implemented. Because of the lower cost as well as the substantially lower impact to property owners along Forsythe Street, Alternative 3 would be the recommended supplemental remedial action should future conditions warrant it.

### 10.0 FINAL RECOMMENDATIONS

The original CMS report for the former Amphenol site recommended the following:

- Continued operation of the ICM.
- Install off-site monitoring wells along Forsythe Street.
- Monitor off-site and selected on-site wells for selected VOCs in ground water semiannually.
- Monitor storm sewer outfall water for selected VOCs semiannually.
- Install focused air sparging and SVE to work together with the ICM should monitoring indicate a need for such.
- Employ appropriate institutional controls such as signage, notification of local utilities, use of ground water and possible deed restrictions limiting excavation in severely impacted areas.

The findings of this report are as follows:

- The ICM is capable of reducing ground water elevations to levels below the storm sewer invert except in instances of unusually high ground water recharge.
- There is no evidence for the movement of a plume of VOCs in ground water from Forsythe Street.
- Levels of VOCs in ground water both off-site and on-site show marked decreases in concentration from 1994 levels.
- There is no evidence that Hurricane Creek bottom sediments are acting as a "contaminant sink"
- VOC levels in soils in Operable Area 3 are below ARARs.

Based on the above findings, semiannual monitoring for selected VOCs (TCA, TCE and PCE) at newly installed off-site wells, selected on-site wells, the storm sewer outfall, and Hurricane Creek at the Forsythe Street Bridge is recommended along with continued operation of the ICM (Alternative 2 of this CMS Addendum). Appropriate institutional controls are also recommended.

Based upon the findings of Task 6, additional sampling of Hurricane Creek sediments is not indicated. Monitoring of off-site soils for VOCs is not indicated as VOC levels are not above ARARs, and installation of additional air sparging and SVE systems is not indicated as VOC levels in ground water

have decreased markedly since 1994. At some time in the future should it be determined that corrective measures goals are not being attained by the measures recommended in this report, then an evaluation of additional corrective measures can be undertaken.

## 11.0 BIBLIOGRAPHY

Walton, W.C., 1962. Selected Analytical Methods for Well and Aquifer Evaluation : Illinois State Water Survey, Bulletin 49, 81p .

\_\_\_\_\_, 1985. Practical Aspects of Ground Water Modeling: National Water Well Association, 587 p.

**Table 3.1.**  
**Geotechnical Data for Soil Samples**

Sample Number	Depth Interval (feet)	% Gravel	% Sand	% Silt	% Clay	% Moisture	Dry Density (lbs/cu.ft.)	Permeability (cm/sec)
MW-31	8.0-8.5	11.7	83.2	3.3	1.8	--	--	--
	11.5-12.0	23.4	69.2	5.6	1.8	--	--	--
	13.0-14.0 (C)	7.3	43.1	32.5	17.1	10.8	131.1	5.2 x 10-8
MW-32	6.0-8.0	22.9	59.3	14.9	2.9	--	--	--
	8.0-8.8	24.9	70.1	3.6	1.4	--	--	--
	10.0-10.5 (C)	8.1	41.9	31.9	18.1	--	--	--
MW-33	8.0-8.5	0.1	96.7	1.1	2.1	--	--	--
	8.5-9.0	7.3	89.5	1.6	2.1	--	--	--
MW-34	6.0-8.0	13.1	79.5	5.2	2.2	--	--	--
	12.5-13.0	26.9	67.7	3.7	1.7	--	--	--
SB-1F	3.0-3.5	7.5	73.8	11.9	6.8	--	--	--
	5.0-5.5 (C)	4.3	38.3	37.8	19.6	10.6	137.3	4.0 x 10-8

**Table 3.2**  
**Ground Water Elevation Data**

WELL NUMBER	Elev. TOC	STATIC WATER LEVEL (feet MSL)							STRATI-GRAPHIC UNIT
		25-Mar 1992	02-Jun 1992	23-Jul 1992	07-Jan 1993	02-Feb 1993	16-Feb 1993	8-9-Apr 1996	
IT-1A	736.38	718.27	717.5	717.3	720.10	720.58	720.76	ND	D
IT-2	732.25	718.95	719.5	719.8	ND	719.95	719.78	720.1	B
IT-3	728.71	718.45	718.7	718.90	ND	718.92	716.96	ND	B
MW-3	736.44	719.47	720.40	720.7	720.7	721.09	720.88	721.5	B
MW-9	733.04	720.28	721.6	721.9	ND	722.57	722.41	723.6	B
MW-12	736.38	718.99	719.6	719.9	ND	720.03	719.89	720.2	B
MW-20	734.03	721.14	722.52	722.80	ND	723.28	723.04	724.44	B
MW-21	737.91	719.44	720.31	720.62	720.60	721.03	720.81	721.44	B
MW-22	737.64	719.25	720.08	720.32	720.31	720.61	720.43	720.88	B
MW-23	737.43	718.28	717.51	717.33	720.05	720.61	720.73	ND	D
MW-24	736.02	719.12	719.80	720.00	720.06	720.45	720.21	720.70	B
MW-25	736.21	718.14	717.35	717.16	720.08	720.48	720.62	ND	D
MW-26	736.39	720.31	721.57	721.89	722.01	722.39	722.21	723.26	B
MW-27	736.63	-	-	-	-	721.19	720.96	721.67	B
MW-28	738.04	-	-	-	-	720.93	720.71	721.33	B
MW-29	737.61	-	-	-	-	720.78	720.53	721.17	B
MW-30	734.84	-	-	-	-	719.50	719.36	719.85	B
MW-31	727.72	-	-	-	-	-	-	719.08	B
MW-32	721.44	-	-	-	-	-	-	716.43	B
MW-33	723.29	-	-	-	-	-	-	718.60	B
MW-34	728.49	-	-	-	-	-	-	719.92	B
SEWER INVERTS									
N Storm Sewer MH	719.72	-	-	-	-	-	-	-	NA
S Storm Sewer MH	719.16	-	-	-	-	-	-	-	NA
E Storm Sewer MH	718.01	-	-	-	-	-	-	-	NA
MH 104	728.14	-	-	-	-	-	-	-	NA
MH 100	720.43	-	-	-	-	-	-	-	NA
MH 108	717.54	-	-	-	-	-	-	-	NA
MH 113	719.47	-	-	-	-	-	-	-	NA
MH 109	716.59	-	-	-	-	-	-	-	NA
MH 110	716.02	-	-	-	-	-	-	-	NA
MH117	720.72	-	-	-	-	-	-	-	NA

Note: All tabulated elevations are 0.76 feet lower than actual elevations

**Table 3.3**  
**Aquifer Transmissivity and Hydraulic Conductivity**

Well	Specific Capacity Well Data <sup>(1)</sup>			Storativity	Well Radius (feet)	Specific Capacity (gpm/ft)	Transmissivity		Aquifer Thickness <sup>(2)</sup> (feet)	Hydraulic Conductivity	
	Q (gpm)	Drawdown (feet)	Time (min)				(gpd/ft)	(m <sup>2</sup> /sec)		(gpd/ft <sup>2</sup> )	(cm/sec)
<i>Test 03</i> MW-31	2	2.37	180	0.2	0.427	0.844	625	9.0E-05	3.7	169	8.0E-03
<i>Test 04</i> MW-31	2	1.53	110	0.2	0.427	1.307	959	1.4E-04	3.7	259	1.2E-02
MW-33	2	0.77	180	0.2	0.333	2.597	2,484	3.6E-04	5.7	436	2.1E-02
MW-34	2	0.42	180	0.2	0.333	4.762	4,927	7.1E-04	7.6	648	3.1E-02

1. Data was determined from field observations made during pump tests on monitoring wells MW-31, MW-33, and MW-34.
2. Saturated thickness of the aquifer, determined from tape down measurements, was used as the Aquifer thickness.

TABLE 3.4

## GROUNDWATER AND SOIL ARARs

Former Amphenol Site  
Franklin, Indiana

Chemical	Final Risk-Based PRG Concentrations for Soil (residential) (mg/kg)	Final Risk-Based PRG Concentrations for Ground Water (ug/L)	Maximum Contaminant Level (MCL) (ug/L)	Maximum Contaminant Level Goal (MCLG) (ug/L)	RCRA Subpart S Action Levels (P)	
					Soil (mg/kg)	Ground Water (ug/L)
Acetone	27400	3650	#N/A	#N/A	8000	4000
2-Butanone	164000	2500	#N/A	#N/A	50000	20000
Carbon tetrachloride	4.91	0.259	5	Zero	5	MCL
Chloroform	105	0.275	80(T)	Zero	100	MCL
1,1-Dichloroethane	27400	768	#N/A	#N/A	8000	4000
1,1-Dichloroethylene	1.06	0.0167	7	7	10	MCL
1,2-Dichloroethene	2460	329	70(cis)	70(cis)	700	MCL
Methylene Chloride	85.2	6.31	5	Zero	90	MCL
4-Methyl-2-pentanone	21900	183	#N/A	#N/A	6000	3000
Tetrachloroethene	12.3	1.43	5	Zero	10	MCL
Toluene	1.6	0.213	1000	1000	2	MCL
1,1,1-Trichloroethane	24600	1550	200	200	7000	MCL
Trichloroethene	58.1	2.54	5	Zero	60	MCL
Xylene, total	548000	73000	10000	10000	200000	MCL
Aluminum	#N/A	#N/A	50(S)	#N/A	#N/A	#N/A
Antimony	110	14.6	6	6	30	MCL
Arsenic	0.355	0.0473	50(U)	#N/A	0.4	MCL
Barium	19200	2560	2000	2000	5000	MCL
Beryllium	0.149	0.0198	4	4	0.2	MCL
Cadmium	137	18.3	5	5	40	MCL
Calcium	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Chromium, VI	1370	183	100(total)	100(total)	400	MCL
Cobalt	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Copper	10200	1350	1300(A)	1300	3000	MCL
Cyanide	5480	730	200(P)	200(P)	2000	700
Iron	#N/A	#N/A	300(S)	#N/A	#N/A	#N/A
Lead	#N/A	#N/A	15(A)	Zero	#N/A	MCL
Magnesium	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Manganese	1370	183	50(S)	#N/A	10000	700
Mercury	82.1	11	2	2	20	MCL
Nickel	5480	730	100	100	2000	MCL
Potassium	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Selenium	1370	183	50	50	400	MCL
Silver	1370	183	100(S)	#N/A	400	200
Sodium	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Thallium	21.9	2.92	2	0.5	6	MCL
Tin	164000	21900	#N/A	#N/A	50000	20000
Vanadium	1920	256	#N/A	#N/A	500	200
Zinc	82100	11000	5000(S)	#N/A	20000	10000

#N/A = Not available

ARAR = Applicable or Relevant and Appropriate Requirements.  
PRG = Preliminary Remediation Goal (health-based).

(P)=Proposed (S)=Secondary standard

(A)=Action Level

(U) = Under review.

MCLs and MCLGs are from "Drinking Water Regulations and Health Advisories", U.S. EPA, May 1994.

Action Levels were calculated according to the recommended assumptions given in the proposed Subpart S rules.

Table 3.5  
Soil Analytical Data.

Sample Number Depth Interval	MW-31	MW-31D	MW-31	MW-32	MW-32	MW-33	MW-33	MW-34	MW-34
	6.0-8.0	6.0-8.0	14.0-15.0	6.0-8.0	8.8-9.3	6.0-7.0	9.0-9.5	6.0-8.0	17.0-17.5
Inorganics (mg/kg)									
Aluminum	1700J	757J	3530J	1200	4260J	1610J	2410J	1600J	4050J
Antimony	2.7BJ	4.1BJ	1.8UJ	3.3UJ	1.8UJ	1.9UJ	2.8BJ	2.3BJ	1.8UJ
Arsenic	3	3	5	1	5	0.52BJ	1	2	3
Barium	15.1J	7.7J	46J	5.3J	32.9J	7.2J	21.6J	11.4J	46.5J
Beryllium	0.12B	0.8B	0	0.05B	0	0.08B	0.14B	0.11B	0
Cadmium	0.28BJ	0.39BJ	0.19UJ	0.22BJ	0.19UJ	0.20UJ	0.25BJ	0.27BJ	0.31BJ
Calcium	156000	187000	119000	169000	93300	63700	135000	174000	85000
Chromium	4.6J	2.5J	6.4J	3.2J	6.5J	3.5J	5J	4.1J	7.3J
Cobalt	2.7J	1.4BJ	5J	1.5BJ	4.8J	1.8BJ	3.7J	3J	5J
Copper	15.6J	5.3J	14.7J	5.4J	12.7J	7.5J	8J	9.9J	13.5J
Cyanide (amenable)	0.50UJ	0.74J	0.96J	1.1J	0.8J	0.50UJ	0.91J	1.2J	0.61J
Cyanide (total)	0.33BJ	0.82J	0.89J	1.3J	0.89J	0.21BJ	1.5J	0.64J	1.3J
Iron	10200J	3200J	10500J	3850J	11900J	3810J	7790J	9910J	10900J
Lead	4	5	7	3	5	3	5	4	5
Magnesium	39200J	89000J	29500J	65000J	31600J	20800J	54800J	33200J	28700J
Manganese	637J	287J	260J	149J	181J	119J	191J	307J	264J
Mercury	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U	0.04U
Nickel	10.3J	6.4J	13.8J	2.9BJ	18.5J	4.9J	5.7J	10.7J	13.3J
Potassium	322B	210U	729	222U	854	263B	487B	240B	837
Selenium	0.29UJ	0.29UJ	0.31UJ	0.31U	0.31UJ	0.32UJ	0.31U	0.29UJ	0.31U
Silver	0.30U	0.30U	0.32U	0.32U	0.32U	0.34U	0.32U	0.30U	0.32U
Sodium	167B	168B	116B	165B	117B	90.8B	137B	176B	117B
Thallium	0.23BUJ	0.23UJ	0.30BUJ	0.24UJ	0.25UJ	0.25UJ	0.24UJ	0.23UJ	0.24UJ
Vanadium	8.1J	5.4J	9.4J	5.7J	10.9J	4.7J	8J	6.8J	10.5J
Zinc	36.2J	8.7J	34J	12.8J	31.7J	18.5J	17J	34.6J	33.5J
Volatile Organics (ug/kg)									
Acetone	20JB	9JB	20JB	6JB	20JB	12JB	27JB	6JB	37JB
2-Butanone	3J	11U	3J	11U	11U	11U	11U	10U	5J
Carbon Tetrachloride	5U	5U	5U	6U	5U	5U	5U	5U	5U
1,1-Dichloroethane	5UJ	5UJ	5U	6U	5U	5U	5U	5U	5U
1,1-Dichloroethylene	5U	5U	5U	6U	5U	5U	5U	5U	5U
1,2-Dichloroethene (total)	5U	5U	5U	6U	5U	5U	5U	5U	5U
1,2-Dichloropropane	5U	5U	5U	6U	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	6U	5U	5U	5U	5U	5U
Methylene Chloride	8JB	9JB	21JB	7JB	10JB	8JB	12JB	7JB	15JB
Tetrachloroethene	5U	5U	5U	6U	5U	5U	5U	2J	3J
Toluene	5U	5U	5U	6U	5U	5U	5U	5U	5U
1,1,1-Trichloroethane	5U	5U	5U	6U	5U	5U	5U	5U	8
Trichloroethene	4J	5J	3J	6U	5U	5U	5U	8	37
Xylenes	5U	5U	5U	6U	5U	5U	5U	5U	5U

**Table 3.6**  
**Ground Water Analytical Data.**

Sample Number	MW-31	MW-32	MW-33	MW-34	MW-34D	MW-12
Inorganics (ug/l)						
Aluminum	219J	173J	297J	122J	198J	NA
Antimony	2.1U	2.1U	2.1U	2.1U	2.1U	NA
Arsenic	1.6UJ	1.6UJ	1.6U	1.6U	1.6U	NA
Barium	52.4	44.3	86.7	58.8	58.2	NA
Beryllium	0.30U	0.30U	0.30U	0.30U	0.30U	NA
Cadmium	0.50U	0.50U	0.50U	0.50U	0.50U	NA
Calcium	103000	85100	100000	90200	89000	NA
Chromium	0.80U	0.80U	0.80U	0.80U	0.80U	NA
Cobalt	0.90U	0.90U	0.90U	0.90U	0.90U	NA
Copper	0.60U	0.61JB	1.1JB	0.60U	0.79JB	NA
Cyanide (amenable)	10.0U	10.0U	10.0U	10.0U	10.0U	NA
Cyanide (total)	2.0U	2.0U	2.0U	2.0U	2.0U	NA
Iron	391J	343J	514J	329J	536J	NA
Lead	1.3U	1.3UJ	1.3UJ	1.8B	1.3U	NA
Magnesium	29500	25700	31600	25000	24700	NA
Manganese	30.6	11.8	108	109	117	NA
Mercury	0.10U	0.10U	0.10U	0.10U	0.10U	NA
Nickel	0.89JB	0.80U	1.9JB	1.0JB	1.4JB	NA
Potassium	2010B	730B	1230B	1790B	1740B	NA
Selenium	2.3B	3.2B	2.0U	3.8B	3.2B	NA
Silver	1.2U	1.2U	1.2U	1.2U	1.2U	NA
Sodium	23500	11900	8910	11500	10900	NA
Thallium	0.90UJ	0.90UJ	0.90U	0.90UJ	0.90UJ	NA
Vanadium	0.65U	0.52B	0.78B	0.50B	0.67B	NA
Zinc	5.3U	5.3U	5.5B	5.3U	5.3U	NA
Volatile Organics (ug/l)						
Acetone	10U	10U	10U	10U	10U	10U
2-Butanone	10U	10U	10U	10U	10U	10U
Carbon Tetrachloride	5U	5U	5U	5U	5U	5U
1,1-Dichloroethane	3J	5U	5U	2J	2J	26JD
1,1-Dichloroethylene	5U	5U	5U	5UJ	5UJ	5U
1,2-Dichloroethene (total)	5U	5U	5U	5U	5U	2J
1,2-Dichloropropane	5U	5U	5U	5U	5U	5U
Ethylbenzene	5U	5U	5U	5U	5U	5U
Methylene Chloride	5U	5U	5U	5U	5U	5U
Tetrachloroethene	15	1J	5U	11	10	1500D
Toluene	5U	5U	5U	5U	5U	5U
1,1,1-Trichloroethane	70	2J	5U	75	73	1000D
Trichloroethene	130DJ	2J	5U	120DJ	160DJ	1200D
Xylenes	5U	5U	5U	5U	5U	5U

**Table 5.1**  
**Analytical Results for ICM Influent and Effluent Samples**

Sample Location Date Analytical Parameter	RW-1				RW-2				RW-3				Stripper Effluent			
	5/3/95	8/3/95	11/7/95	4/12/96	5/3/95	8/3/95	11/7/95	4/12/96	5/3/95	8/3/95	11/7/95	4/12/96	5/3/95	8/3/95	12/13/95	4/12/96
<b>VOCs (ug/l)</b>																
1,1-Dichloroethane	33	31	30	NS <sup>(1)</sup>	47	48	58	ND	28	53	48	ND	ND	ND	NA	ND
1,1-Dichloroethene	ND <sup>(2)</sup>	ND	ND	NS	8.1	ND	9.1	ND	ND	ND	6.9	ND	ND	ND	NA	ND
cis-1,2-Dichloroethene	ND	ND	ND	NS	3.9	ND	5.3	ND	ND	ND	ND	ND	ND	ND	NA	ND
Tetrachloroethene	100	170	ND	NS	1500	1500	2100	980	160	16	1400	93	ND	ND	NA	ND
1,1,1-Trichloroethane	200	180	190	NS	960	1100	1300	530	540	560	950	450	ND	ND	NA	ND
Trichloroethene	520	400	390	NS	4300	3000	2200	1500	2900	870	1700	1200	ND	ND	NA	ND
Total VOCs	853	781	610	NS	6819	5648	5672.4	3010	3628	1499	4104.9	1743	-	-	-	-
<b>Inorganics (ug/l)</b>																
Arsenic	NA <sup>(3)</sup>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<200	<5	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	<20	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<80	<80	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	<5	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	<20	NA
Cyanide	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	5	NA

Notes: (1) NS - not sampled; well not in operation during sampling event  
(2) ND - not detected at instrument or method detection limit  
(3) NA - not analyzed

**Table 5.2**  
**Ground Water Level Measurements**

Well Number	Date	TOC Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet)	Change from Previous (feet)
IT-2	2/23/95	732.25	13.25	719.00	-
	3/2/95		13.15	719.10	+ 0.10
	8/29/95		12.36	719.89	+ 0.79
	11/7/95		13.07	719.18	- 0.71
	4/12/96		13.45	718.8*	- 0.38
	5/29/96		10.82	721.43	+ 2.63
IT-3	2/23/95	728.71	11.20	717.51	-
	3/2/95		11.18	717.53	+ 0.02
	8/29/95		9.52	719.19	+ 1.68
	11/7/95		11.14	717.57*	- 1.62
	4/12/96		12.09	716.62*	- 0.95
	5/29/96		9.41	719.30	+ 2.68
MW-3	2/23/95	736.44	16.55	719.89	-
	3/2/95		16.49	719.95	+ 0.06
	8/29/95		15.23	721.21	+ 1.26
	11/7/95		16.40	720.04	- 1.17
	4/12/96		14.91	721.53	+ 1.49
	5/29/96		13.16	723.28	+ 1.75
MW-9	2/23/95	733.04	11.82	721.22	-
	3/2/95		11.80	721.24	+ 0.02
	8/29/95		9.70	723.34	+ 2.10
	11/7/95		11.47	721.57	- 1.77
	4/12/96		9.46	723.58	+ 2.01
	5/29/96		3.94	729.10	+ 5.52
MW-12	2/23/95	726.38	17.28	719.10	-
	3/2/95		17.27	719.11	+ 0.01
	8/29/95		16.43	719.95	+ 0.84
	11/7/95		17.18	719.2*	- 0.75
	4/12/96		16.21	720.17	+ 0.97
	5/29/96		15.07	721.31	+ 1.14
MW-20	2/23/95	734.03	not measured	not measured	-
	3/2/95		not measured	not measured	-
	8/29/95		10.35	723.68	-
	11/7/95		12.16	721.87	- 1.81
	4/12/96		9.70	724.33	+ 2.46
	5/29/96		6.30	727.73	+ 3.40
MW-21	2/23/95	737.91	18.03	719.88	-
	3/2/95		18.02	719.89	+ 0.01
	8/29/95		16.81	721.10	+ 1.21
	11/7/95		17.92	719.99	- 1.11
	4/12/96		16.48	721.43	+ 1.44
	5/29/96		14.82	723.09	+ 1.66

Table 5.2  
(cont.)

Well Number	Date	TOC Elevation (feet)	Depth to Water (feet)	Ground Water Elevation (feet)	Change from Previous (feet)
MW-22	2/23/95	737.64	18.03	719.61	-
	3/2/95		18.12	719.52	- 0.09
	8/29/95		17.05	720.59	+ 1.07
	11/7/95		17.90	719.74*	- 0.85
	4/12/96		16.74	720.90	+ 1.16
	5/29/96		15.52	722.12	+ 1.22
MW-24	2/23/95	736.02	16.85	719.17	-
	3/2/95		16.55	719.47	+ 0.30
	8/29/95		15.59	720.43	- 0.04
	11/7/95		16.41	719.61	- 0.82
	4/12/96		15.29	720.73	+ 1.12
	5/29/96		13.77	722.25	+ 1.52
MW-26	2/23/95	736.39	15.81	720.58	-
	3/2/95		15.19	721.20	- 0.38
	8/29/95		13.46	722.93	+ 1.73
	11/7/95		15.02	721.37	- 1.56
	4/12/96		13.17	723.22	+ 1.85
	5/29/96		9.53	726.86	+ 3.64
MW-27	2/23/95	736.63	16.54	720.09	-
	3/2/95		16.60	720.03	- 0.06
	8/29/95		15.37	721.26	+ 1.23
	11/7/95		16.66	719.97	- 1.29
	4/12/96		15.01	721.62	+ 1.65
	5/29/96		13.23	723.40	+ 1.78
MW-28	2/23/95	738.04	18.18	719.86	-
	3/2/95		18.21	719.83	- 0.06
	8/29/95		17.03	721.01	+ 1.18
	11/7/95		18.19	719.85	- 1.16
	4/12/96		16.72	721.32	+ 1.47
	5/29/96		15.21	722.83	+ 1.51
MW-29	2/23/95	737.61	17.92	719.69	-
	3/2/95		17.92	719.60	0.00
	8/29/95		16.83	720.78	+ 1.18
	11/7/95		17.99	719.62	- 1.16
	4/12/96		16.46	721.15	+ 1.53
	5/29/96		15.01	722.60	+ 1.45
MW-30	2/23/95	734.84	15.70	719.14	-
	3/2/95		15.72	719.12	- 0.02
	8/29/95		15.54	719.30	+ 0.18
	11/7/95		15.93	718.91	- 0.39
	4/12/96		14.95	719.89	+ 0.98
	5/29/96		14.10	720.74	+ 0.85
RW-1	8/29/95	730.97	2.58	728.39	-
	11/7/95		not recorded	-	-
	4/12/96		11.02	719.95	- 8.44
	5/29/96		10.84	720.13	+ 0.18
RW-2	8/29/95	732.05	4.42	727.63	-
	11/7/95		nor recorded	-	-
	4/12/96		12.72	719.33	- 8.3
	5/29/96		11.50	720.55	+ 1.22
RW-3	8/29/95	733.19	4.08	729.11	-
	11/7/95		not recorded	-	-
	4/12/96		13.07	720.12	- 8.99
	5/29/96		11.73	721.46	+ 1.34

Note: All tabulated elevations are 0.76 feet lower than actual elevations

\* - Indicates that this ground water elevation is likely lower than the storm sewer invert

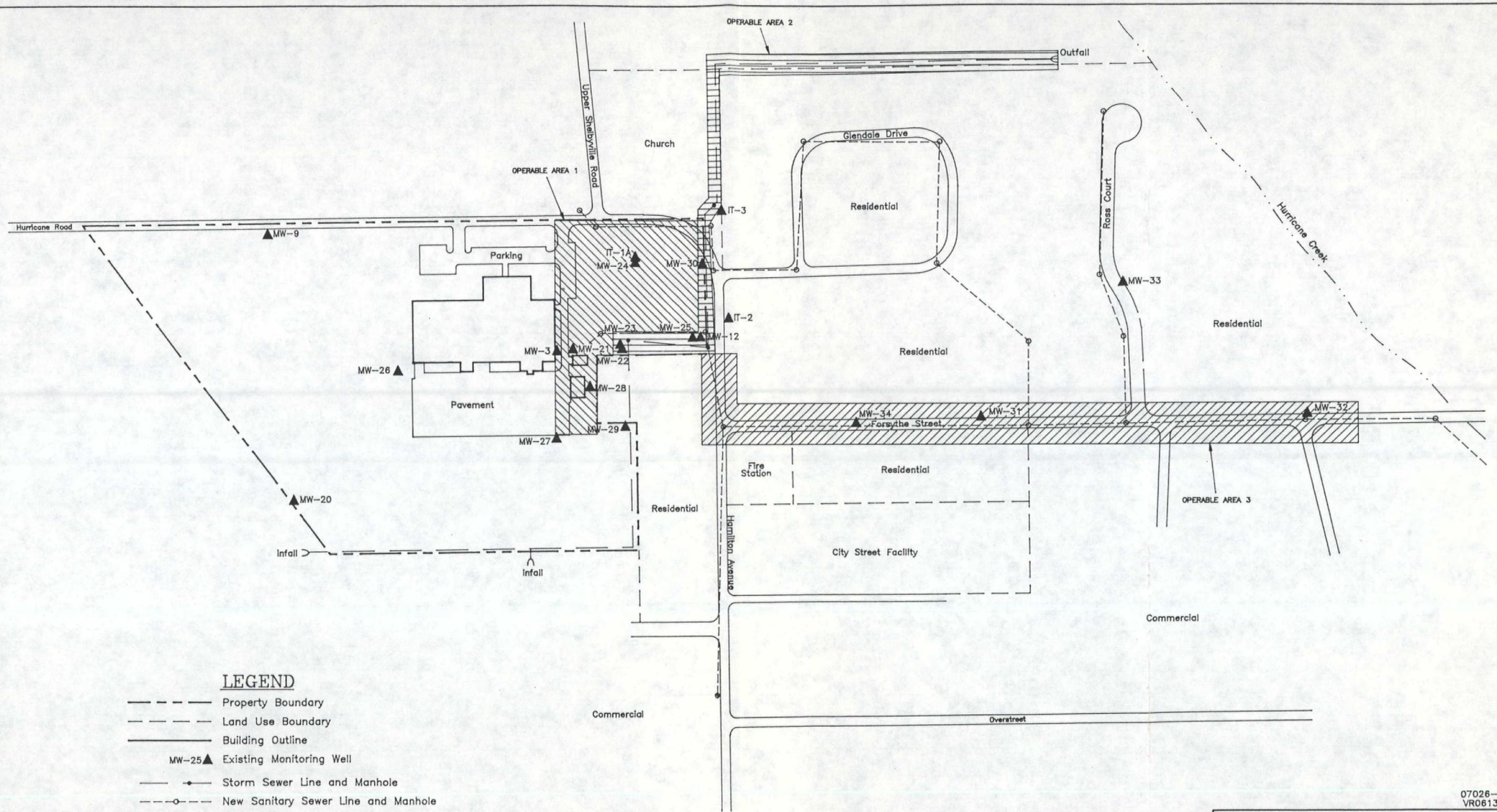
**Table 5.3**  
**Cumulative ICM Pumpage in Gallons**

Date	Recovery Well Pumpage			Total
	RW-1	RW-2	RW-3	
2/24/95	-	-	-	-
3/3/95	20,984	31,644	80,228	132,856
3/29/95	84,695	88,774	152,228	325,697
4/14/95	136,654	133,675	224,228	494,557
5/3/95	200,683	193,729	284,420	678,832
5/14/95	237,115	228,577	319,268	784,960
5/18/95	255,043	245,727	354,116	854,886
5/23/95	255,043	245,727	354,116	854,886
5/26/95	276,211	266,031	374,420	916,662
6/19/95	445,555	428,463	536,852	1,410,870
8/3/95	445,555	428,463	536,852	1,410,870
8/4/95	448,963	431,997	543,600	1,424,560
8/9/95	473,414	453,496	590,792	1,517,702
8/11/95	482,414	461,556	609,202	1,553,172
8/14/95	496,474	474,106	637,152	1,607,732
8/29/95	561,302	533,550	768,644	1,863,496
10/6/95	664,814	629,975	985,749	2,820,538
11/7/95	665,305	763,804	1,159,950	2,589,059
12/8/95	686,316	766,356	1,253,348	2,706,020
1/15/96	778,585	873,570	1,263,941	2,916,096
4/12/96	778,585	1,170,564	1,651,617	3,600,766
5/29/96	873,365	1,376,384	1,823,668	4,073,417

TABLE 8.1

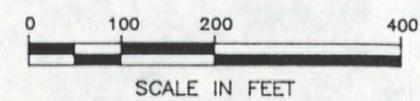
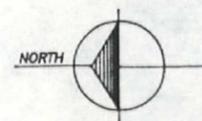
Capital and Annual Operating Cost Summary  
for Corrective Measures Alternatives

Alternative Number	Corrective Measure Technology	Capital Cost (\$)	Annual Operating Cost (\$)
1	No Action	NA	NA
2	Monitoring	0	6,600
3	Monitoring; Groundwater Extraction and Treatment	62,000	34,600
4	Monitoring; Air Sparging with SVE	164,200	87,700



**LEGEND**

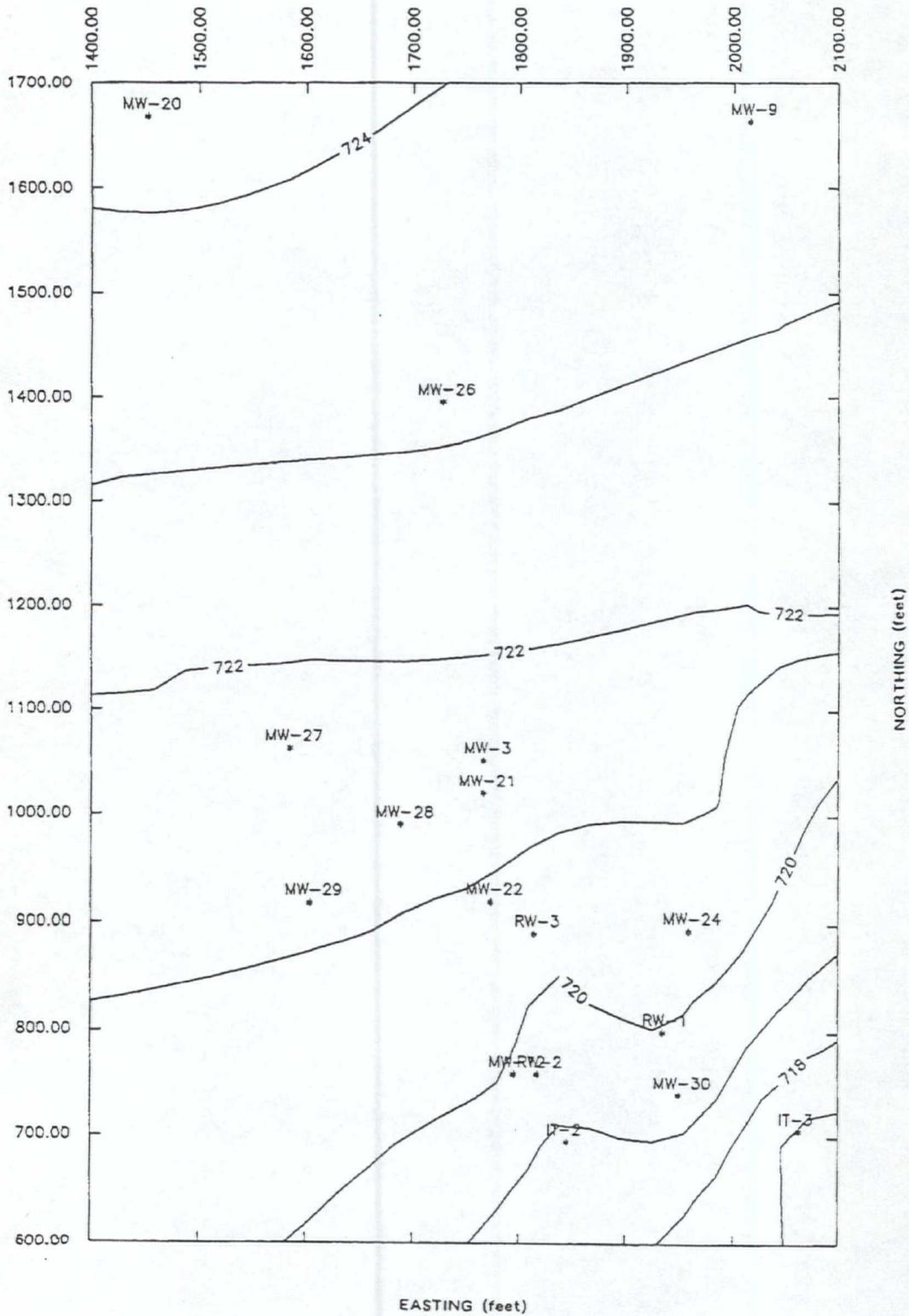
- Property Boundary
- - - Land Use Boundary
- Building Outline
- MW-25▲ Existing Monitoring Well
- Storm Sewer Line and Manhole
- - -○- - - New Sanitary Sewer Line and Manhole



07026-0A  
VR061396

**FIGURE 2.1**  
**OPERABLE AREAS**  
**1, 2 & 3**  
FORMER AMPHENOL SITE  
FRANKLIN, INDIANA

JUNE, 1996 07026.08

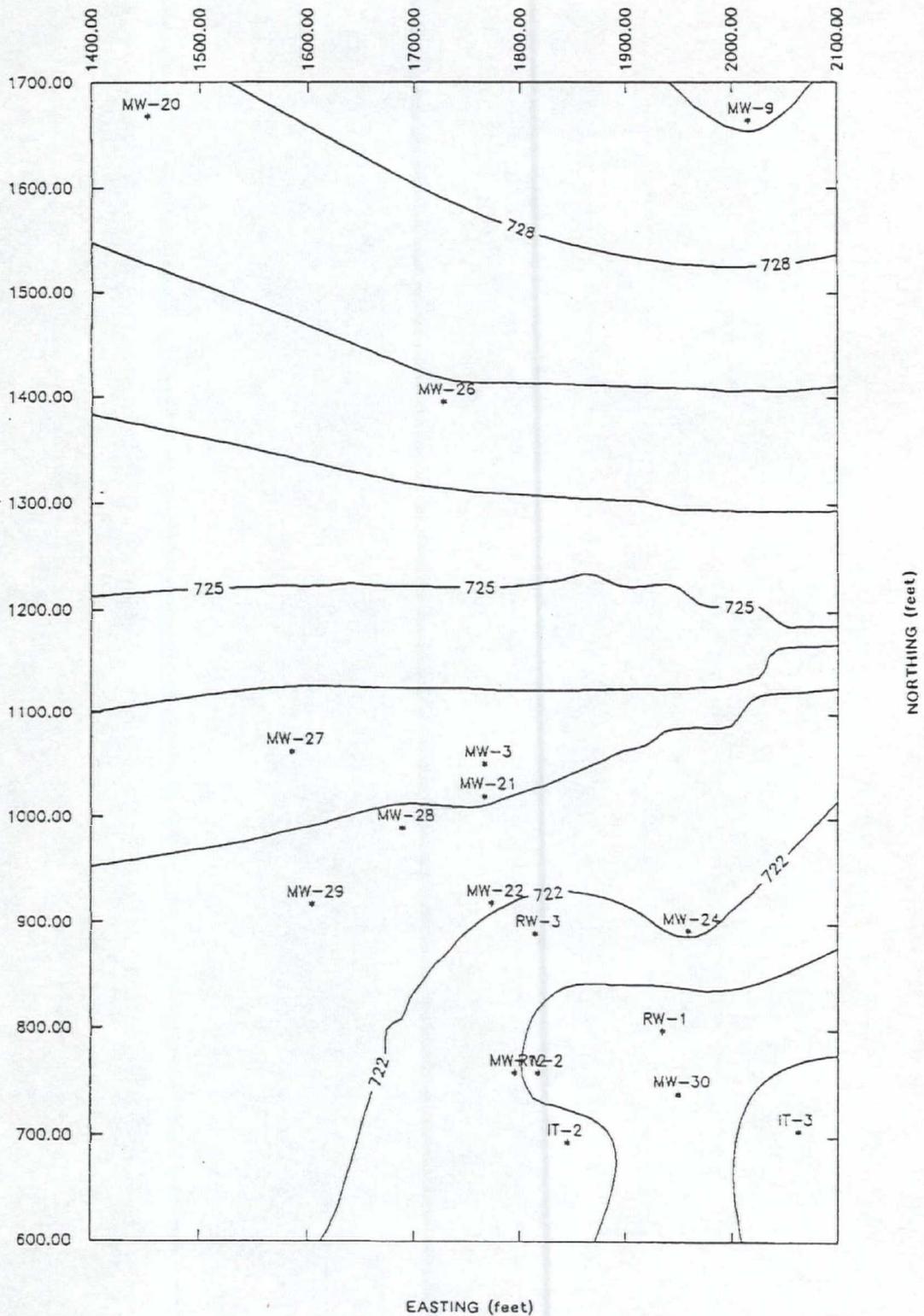


1:1  
70260851  
NW061496

FIGURE 5.1  
POTENTIOMETRIC SURFACE CONTOURS  
IN THE VICINITY OF THE ICM,  
APRIL 12, 1996  
(CONTOUR MAP PREPARED BY HANDEX)

JUNE, 1996

07026.08



1:1  
70260852  
NW061496

FIGURE 5.2  
POTENTIOMETRIC SURFACE CONTOURS  
IN THE VICINITY OF THE ICM,  
MAY 29, 1996  
(CONTOUR MAP PREPARED BY HANDEX)

JUNE, 1996

07026.08

Site Curtis - Franklin  
 Date 04-04-96  
 Logged by M. Lytle  
 Location

Boring No. SB-1F  
 Driller A. Schrader  
 Elevation  
 Page 1 of 1

Water Level	7.60				Start	Finish
Time	1145				Time 1045	Time 1130
Date	04-04-96				Date 4/4/96	Date 4/4/96

S A T M P L E	D R I V E N	R E C O V E R E D	B L O W S (6")	D E P T H (ft.)	G R A P H I C	H N u	DESCRIPTION
SS-1	2.0	2.0	5	0		0.0	Silt loam, black (10YR2/1) moist, friable, nonplastic, massive, structureless, noncalcareous, gradual color change to dark brown (10YR3/3).
			5	1		0.0	
			6				
SS-2	2.0	1.7	7	2		0.0	Sand, coarse, with gravel, yellowish brown (10YR5/8) dry, loose, poorly washed and sorted, abrupt contact at 3.5' with silty clay loam, pebbles, dark brown (10YR3/3) moist-wet, soft, plastic, slightly sticky, massive, structureless, noncalcareous.
			6	3		0.0	
			12				
SS-3	2.0	2.0	8	4		0.5	Sandy loam, pebbles, dark brown (10YR4/1) moist, friable, plastic, nonsticky, massive, structureless, calcareous.
			4	5		0.0	
			7				
SS-4	2.0	1.8	4	6		0.0	Loam, pebbles, dark gray (10YR4/1) moist, very hard, nonplastic, nonsticky, massive, structureless, calcareous.
			12	7		0.0	
			15				
			30	8		0.0	
			50	9			
				10			T.D. 8.0'
				1			
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				20			

Remarks

Site Curtis - Franklin  
 Date 04-05-96  
 Logged by M. Lytle  
 Location

Boring No. MW-31  
 Driller A. Schrader  
 Elevation  
 Page 1 of 1

Water Level	8.10				Start	
Time	1445				Time 1400	Time 1445
Date	04-05-96				Date 4/5/96	Date 4/5/96

S A T M P L E	D R I V E N	R E C O V E R E D	B L O W S (6")	D E P T H (ft.)	G R A P H I C	H N u	DESCRIPTION
SS-1	2.0	1.5	8	0		0.0	Silt loam, black (10YR3/1) moist, friable, nonplastic, massive structureless, noncalcareous contact at 0.5' with silt loam, pebbles, dark yellowish brown (10YR3/4), moist, friable, nonplastic, massive, structureless, noncalcareous.
			7	1			
			8				
SS-2	2.0	1.8	8	2		0.0	Silty clay loam, dark yellowish brown (10YR3/4) moist abrupt sand.
			9	3			
			9				
SS-3	2.0	1.3	10	4		0.0	Silty clay loam, as 2.0 above, contact at 4.8' with sand, coarse, with gravel, yellowish brown, (10YR5/4) moist-wet, loose, poorly washed and sorted, slightly calcareous.
			10	5			
			11				
SS-4	2.0	1.5	11	6		0.0	Sand and gravel, yellowish brown (10YR3/4) moist, wet, poorly washed and sorted.
			14	7			
			13				
SS-5	2.0	2.0	15	8		0.0	Sand and gravel, as 6.0' above, saturated.
			12	9			
			14				
SS-6	2.0	2.0	17	10		0.0	Sand and gravel, as 8.0' above.
			18	1			
			13				
SS-7	2.0	0.8	18	2		0.0	Loam, dark gray (10YR4/1) dry-moist, hard, nonplastic, non sticky, massive, structureless, calcareous.
			17	3			
			31				
			28	4			
				5		0.0	T.D. 15.0'
				6			
				7			
				8			
				9			
				20			

Remarks

Site Curtis - Franklin  
 Date 04-04-96  
 Logged by M. Lytle  
 Location

Boring No. MW-32  
 Driller A. Schrader  
 Elevation  
 Page 1 of 1

Water Level	4.90				Start	Finish
Time	0920				Time 1300	Time 1355
Date	04-05-96				Date 4/4/96	Date 4/4/96

S A T M P L E	D R I V E N	R E C O V E R E D	B L O W S (6")	D E P T H (ft.)	G R A P H I C	H N u	DESCRIPTION
SS-1	2.0	2.0	3	0		0.0	Silt loam, black (10YR2/1) wet, very friable, slightly plastic, massive structureless, noncalcareous contact at 1.2' with silt loam, dark brown (10YR3/3), as above.
			3	1			
			4				
			5				
SS-2	2.0	1.0	3	2		0.0	Silty clay loam, pebbles, dark yellowish brown (10YR4/4) moist, friable, plastic, sticky, massive, structureless, noncalcareous, contact at 2.8' peat, black, (10YR2/1) plant debris.
			4	3			
			4				
			6	4			
SS-3	2.0	1.3	6	4		0.0	Sand and gravel, yellowish brown (10YR5/4) moist, very dense, poorly washed and sorted, slightly calcareous.
			12	5			
			20			1.0	
			30	6		1.0	Sand and gravel, as 4.0' above, saturated.
SS-4	2.0	1.5	10	6			
			13	7			
			14				
			18	8		0.5	
SS-5	2.0	2.0	18	8		0.0	Sand and gravel, as 6.0' above, contact at 8.8' with loam, pebbles, dark gray (10YR4/1) moist-dry, hard, massive, structureless, calcareous.
			20	9			
			21	9			
			30	10		0.0	T.D. 10.50'
				10			
				1			
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				20			

Remarks  
 10.0-12.0' Drive 3" spoon for permeability sample, sand heaving in angers, will try again.

Site Curtis - Franklin  
 Date 04-04-96  
 Logged by M. Lytle  
 Location

Boring No. MW-33  
 Driller A. Schrader  
 Elevation  
 Page 1 of 1

Water Level	4.55				Start	Finish
Time	0930				Time 1500	Time 1530
Date	04-05-96				Date 4/4/96	Date 4/4/96

S A T M P L E	D R I V E N	R E C O V E R E D	B L O W S (6")	D E P T H (ft.)	G R A P H I C	H N u	DESCRIPTION
SS-1	2.0	1.8	3	0			0.0 Silt loam, black (10YR2/1) moist, very friable, nonplastic, nonstructureless, massive structureless, noncalcareous, contact at 0.5' with sandy loam, coarse, pebbles, dark yellowish brown (10YR4/4) moist, friable, nonplastic, nonsticky, massive, noncalcareous.
			4	1			
			8				
			10				
SS-2	2.0	1.5	8	2			0.0 Sand loam, as 0.5' above, abrupt contact at 2.6' with sand and gravel, coarse, yellowish brown (10YR5/4) moist, loose, poorly washed and sorted, slightly calcareous, gradual change in color to dark gray (10YR4/1).
			7	3			
			9				
SS-3	2.0	1.6	11	4			0.0 Sand and gravel, dark gray (10YR4/1) saturated, as above.
			10	5			
			11				
SS-4	2.0	1.0	12	6			Sand and gravel, as 4.0' above.
			9	7			
			8				
SS-5	2.0	1.5	14	8			0.5 Sand and gravel, as 4.0' above, contact at 9.2' with loam, coarse, pebbles, dark gray (10YR4/1) moist-dry, very firm, calcareous.
			15	9			
			10	10			
			12				
			17				
			18				
				10			T.D. 10.8
				1			
				2			
				3			
				4			
				5			
				6			
				7			
				8			
				9			
				20			

Remarks

Site Curtis - Franklin  
 Date 04-05-96  
 Logged by M. Lytle  
 Location

Boring No. MW-34  
 Driller A. Schrader  
 Elevation  
 Page 1 of 1

Water Level	8.00				Start	Finish
Time	1200				Time 1030	Time 1200
Date	04-05-96				Date 4/5/96	Date 4/5/96

S A T T Y P E	D R I V E N	R E C O V E R E D	B L O W S (6")	D E P T H (ft.)	G R A P H I C	H N u	DESCRIPTION
SS-1	2.0	1.9	10	0			Gravel fill, gray, contact at 0.5' with silt loam, pebbles, dark grayish brown (10YR4/2) moist, friable, slightly plastic, slightly sticky, massive, noncalcareous, gradual change in color to dark yellowish brown (10YR3/4).
			15	1			
			20				
			21				
SS-2	2.0	2.0	9	2			Silt loam, as 0.5' above, contact at 3.0' with sand, medium to coarse, dark yellowish brown, (10YR3/4) moist, loose, washed and sorted, noncalcareous.
			10	3			
			8				
SS-3	2.0	1.8	7	4			Sand as 3.0' above.
			6	5			
			7				
SS-4	2.0	1.7	9	6		0.6	Sand and gravel, yellowish brown (10YR5/4) moist, loose, poorly washed and sorted.
			10	7			
			12				
			14				
SS-5	2.0	1.5	10	8		1.5	Sand and gravel, as 6.0' above, wet at 9.0'.
			11	9			
			14				
			13				
SS-6	2.0	2.0	11	10		1.0	Sand and gravel, as 8.0' above.
			12	1			
			11				
			10				
SS-7	2.0	1.0	11	2		1.0	Sand and gravel, as 8.0' above.
			10	3			
			10				
			10				
SS-8	1.0	1.0		5			T.D. 16.0
				6			
				7			
			50	7			
			50	8			
				9			
				20			

Remarks  
 Sand heaving in augers 2' at 12'  
 Due to sand heaving, was forced to auger to 17' to stop it  
 Tried to sample, but was not successful from 14 to 17'  
 till at 15.0'

## Well Completion Diagram

Well No.          MW-31

Project          Curtis - Franklin

Time & Date: Start          4/8/96          1135

                  Completed          4/8/96          1430

Installed By          A. Schrader

Inspected By          M. Lytle

Ground Surface          FT. (MSL)

Reference Point  
(Top of Casing)          727.72 FT. (MSL)

Note: Elevation is 0.76 feet lower than true elevation

Guard Pipe

Drilling Metho          6 1/4" HSA

         Mobile B-57

Backfill  
Bentonite

Screen:  
Type          4" Threaded PVC

Slot Size          0.010

Top Blank          0.03

Bottom Blank          0.20

Total Screen          4.80

Total Length          5.03

Stand Pipe:  
Type          4" Threaded PVC

Total Length          10.01

         6.00 FT.

Bentonite Seal          6.50 FT.

Granular Pack  
#4 Quartz  
Sand          7.84 FT.

Well Screen

         12.64 FT. =  $\frac{15.04}{\text{Tot. Pipe}} - \frac{2.70}{\text{Cut Off}} - \frac{0.20}{\text{Bot. Blk.}} - \frac{-0.50}{\text{Stick}}$

Bottom of Borehole          13.75 FT.

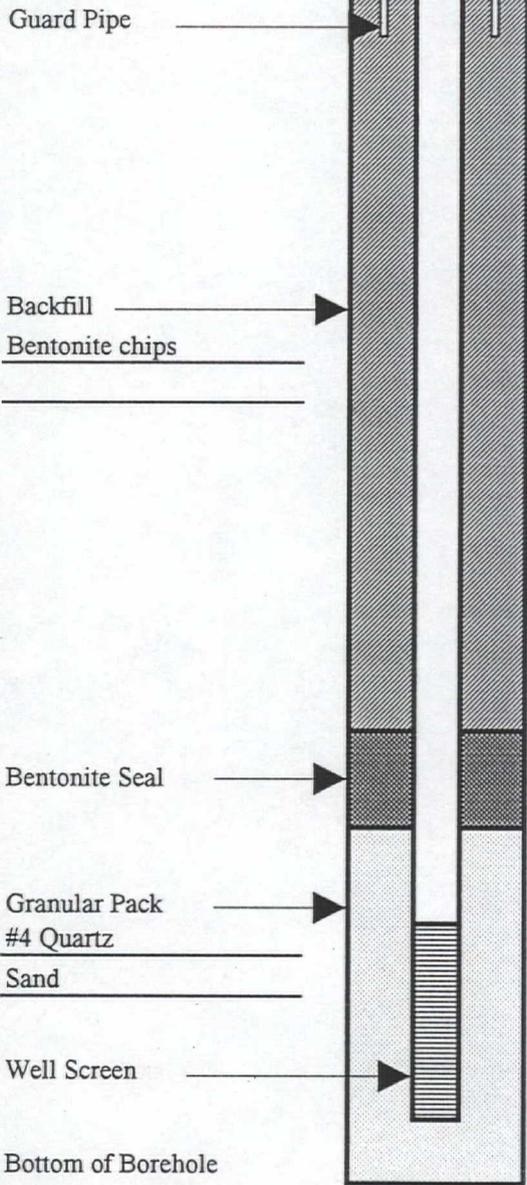
**EARTH TECH**  
Well Completion Diagram

Well No.     MW-32      
 Project     Curtis - Franklin      
 Time & Date: Start     4/4/96         1400      
                   Completed     4/4/96         1450    

Installed By     A. Schrader      
 Inspected By     M. Lytle    

Ground Surface \_\_\_\_\_ FT. (MSL)  
 Reference Point (Top of Casing)     721.44 FT. (MSL)    

Note: Elevation is 0.76' lower than true elevation



Drilling Method     4 1/4" HSA      
    Mobile B-57    

Screen:  
 Type     2" Threaded PVC      
 Slot Size     0.01      
 Top Blank     0.10      
 Bottom Blank     0.15      
 Total Screen     4.70      
 Total Length     4.95    

Stand Pipe:  
 Type     2" Threaded PVC      
 Total Length     10.00    

    2.00 FT.      
    3.20 FT.      
    4.95 FT.      
    9.65 FT. = 14.95 - 5.75 - 0.15 - -0.60      
    10.50 FT.      
Tot. Pipe Cut Off Bot. Blk. Stick

Well-2.xls

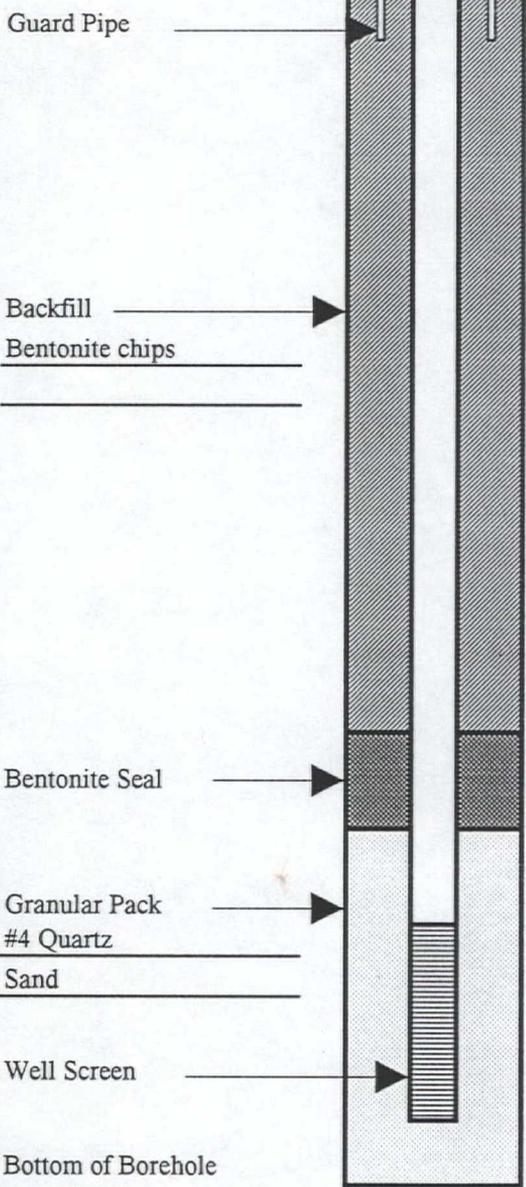
Well Completion Diagram

Well No. MW-33  
 Project Curtis - Franklin  
 Time & Date: Start 4/4/96 1615  
 Completed 4/4/96 1650

Installed By A. Schrader  
 Inspected By M. Lytle

Ground Surface \_\_\_\_\_ FT. (MSL)  
 Reference Point (Top of Casing) 723.27 FT. (MSL)

Note: Elevation is 0.76' lower than true elevation



Drilling Method 4 1/4" HSA  
Mobile B-57

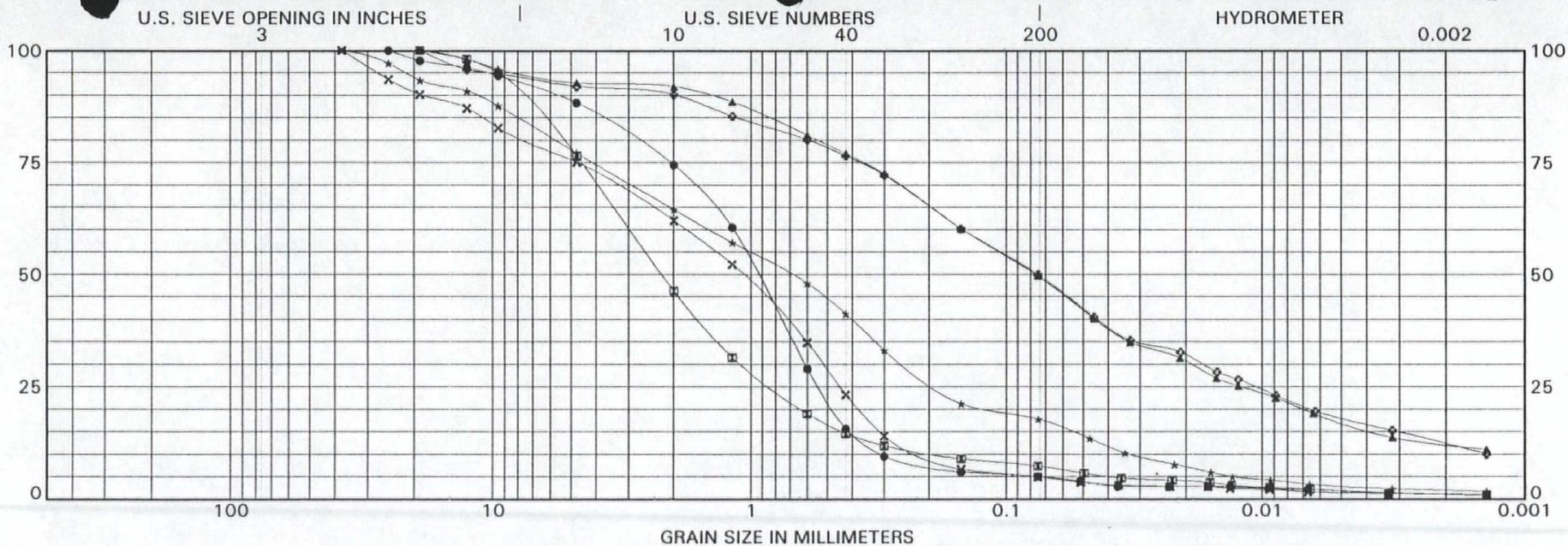
Screen:  
 Type 2" Threaded PVC  
 Slot Size 0.010  
 Top Blank 0.12  
 Bottom Blank 0.15  
 Total Screen 4.83  
 Total Length 5.10

Stand Pipe:  
 Type 2" Threaded PVC  
 Total Length 10.00

3.30 FT.  
4.32 FT.  
4.92 FT.  
9.75 FT. =  $\frac{15.10}{\text{Tot. Pipe}} - \frac{5.50}{\text{Cut Off}} - \frac{0.15}{\text{Bot. Blk.}} - \frac{-0.30}{\text{Stick}}$   
10.80 FT.

Well-2.xls





COBBLES	GRAVEL	SAND	SILT	CLAY
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Boring No.	Sample No.	Depth, ft.	USCS Classification <sup>1</sup>	Atterberg Limits <sup>2</sup>			% Gravel	% Sand	% Silt	% Clay	% <sup>3</sup> Moisture	Dry Density lbs/cu ft.	Permeability <sup>4</sup> cm/sec	Specific Gravity <sup>5</sup>	pH	CEC meq/100g
				LL	PL	PI										
●	MW-31	GRAB	8.0 - 8.5				11.7	83.2	3.3	1.8	--					
☒	MW-31	GRAB	11.5 - 12.0				23.4	69.2	5.6	1.8	--					
▲	MW-31	S-1	13.0 - 14.0				7.3	43.1	32.5	17.1	10.8	131.1	5.2X10 <sup>-8</sup>			
★	MW-32	GRAB	6.0 - 8.0				22.9	59.3	14.9	2.9	--					
✕	MW-32	GRAB	8.0 - 8.8				24.9	70.1	3.6	1.4	--					
⊙	MW-32	S-1	10.0 - 10.5				8.1	41.9	31.9	18.1	--					



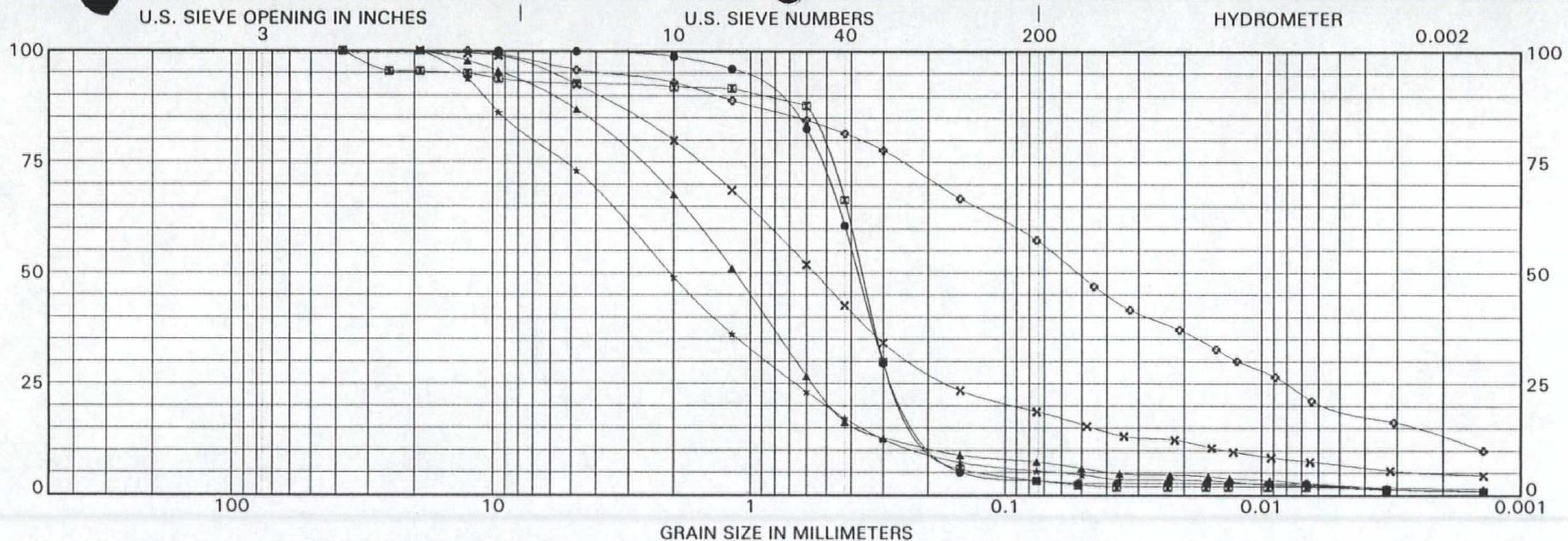
Client Project No. 07026.08  
 Report Date 4-29-96  
 EEI Project No. 3831

Project Franklin-Curtis CMS  
 Location Franklin, Indiana  
 Client Earth Tech

### SUMMARY OF LABORATORY TEST RESULTS

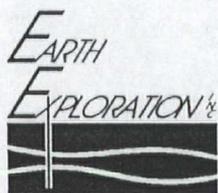
Earth Exploration, Inc.  
 7770 West New York Street  
 Indianapolis, Indiana 46214

- 1 ASTM D 422 & D 2487
- 2 ASTM D 4318
- 3 ASTM D 2216
- 4 ASTM D 5084
- 5 ASTM D 854



COBBLES	GRAVEL	SAND	SILT	CLAY
---------	--------	------	------	------

Boring No.	Sample No.	Depth, ft.	USCS Classification <sup>1</sup>	Atterberg Limits <sup>2</sup>			% Gravel	% Sand	% Silt	% Clay	% <sup>3</sup> Moisture	Dry Density lbs/cu ft.	Permeability <sup>4</sup> cm/sec	Specific Gravity <sup>5</sup>	pH	CEC meq/100g
				LL	PL	PI										
●	MW-33 GRAB	8.0 - 8.5	SP, Poorly Graded Sand (visual)				0.1	96.7	1.1	2.1	--					
◻	MW-33 GRAB	8.5 - 9.0	SP, Poorly Graded Sand (visual)				7.3	89.5	1.6	1.6	--					
▲	MW-34 GRAB	6.0 - 8.0	SW-SM, Well Graded Sand (visual)				13.1	79.5	5.2	2.2	--					
★	MW-34 GRAB	12.5 - 13.0	SW-SM, Well Graded Sand (visual)				26.9	67.7	3.7	1.7	--					
×	SB-1 GRAB	3.0 - 3.5	SM, Silty Sand (visual)				7.5	73.8	11.9	6.8	--					
◊	SB-1 S-1	5.0 - 5.5	CL-ML, Sandy Lean Clay (visual)				4.3	38.3	37.8	19.6	10.6	137.3	4.0X10 <sup>-8</sup>			



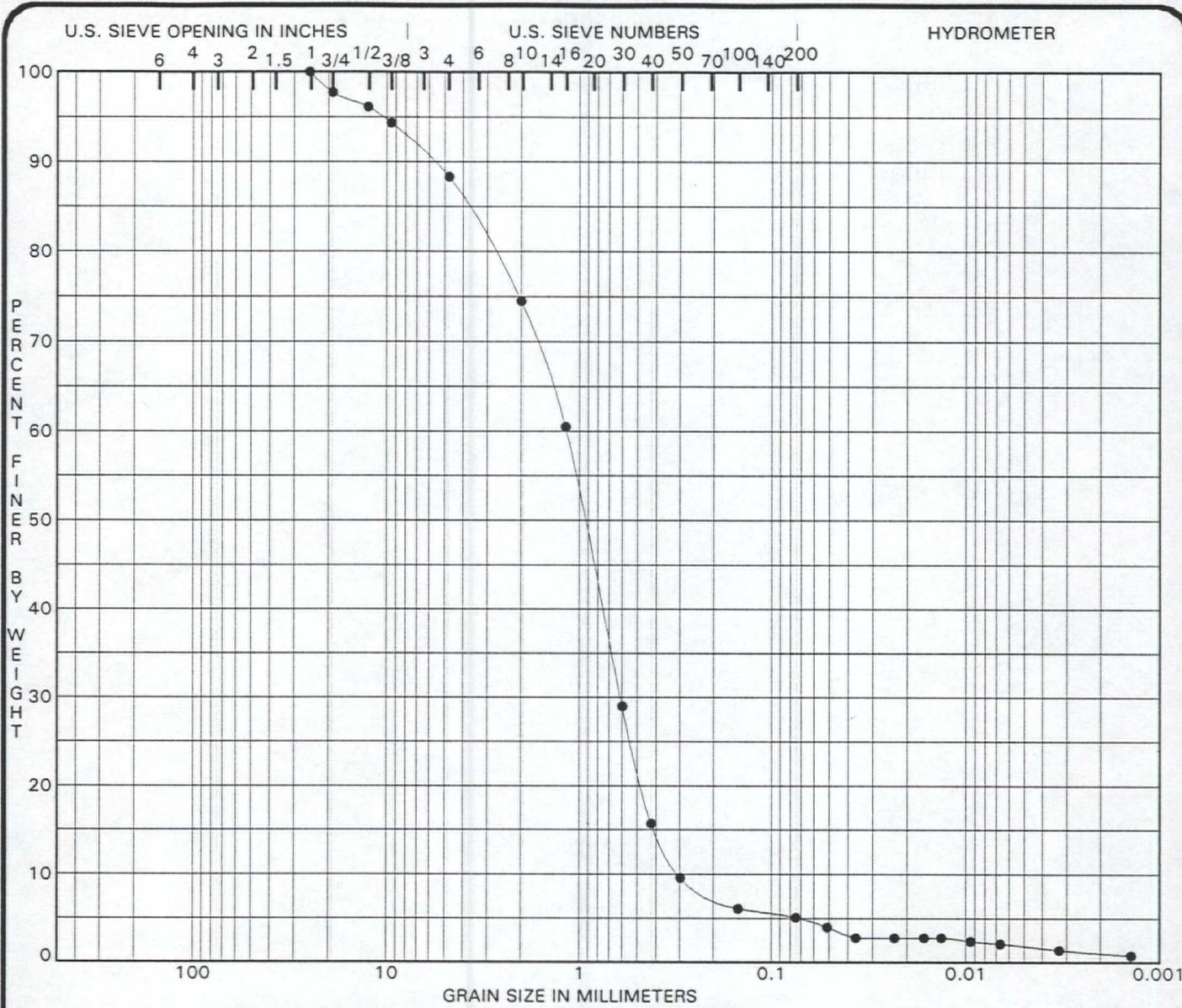
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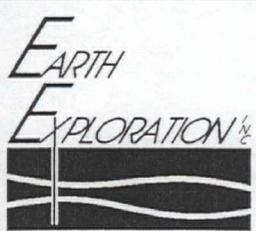


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

<b>Sample Identification</b>	<b>USCS Classification</b>	<b>MC%</b>	<b>LL</b>	<b>PL</b>	<b>PI</b>	<b>Cc</b>	<b>Cu</b>
● MW-31 GRAB 8'-8.5'	SP-SM, Poorly Graded Sand (visual)	--				1.05	3.8

<b>% Gravel ( &gt;4.75mm )</b>	<b>% Sand ( 4.75 to .075mm )</b>	<b>% Silt ( .075 to .005 mm )</b>	<b>% Clay ( &lt;.005mm )</b>
11.7	83.2	3.3	1.8

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	22.0	0.016	2.8
16.0	97.0	0.25	8.7	0.008	2.3
4.0	85.6	0.125	5.8	0.005	1.8
2.0	74.5	0.075	5.1	0.002	1.0
1.0	52.8	0.050	3.9		



**PROJECT** Franklin-Curtis CMS  
**LOCATION** Franklin, Indiana  
**CLIENT** Earth Tech  
**EEL PROJECT NO.** 3831  
**CLIENT ID NO.** 07026.08  
**DATE** 4-29-96

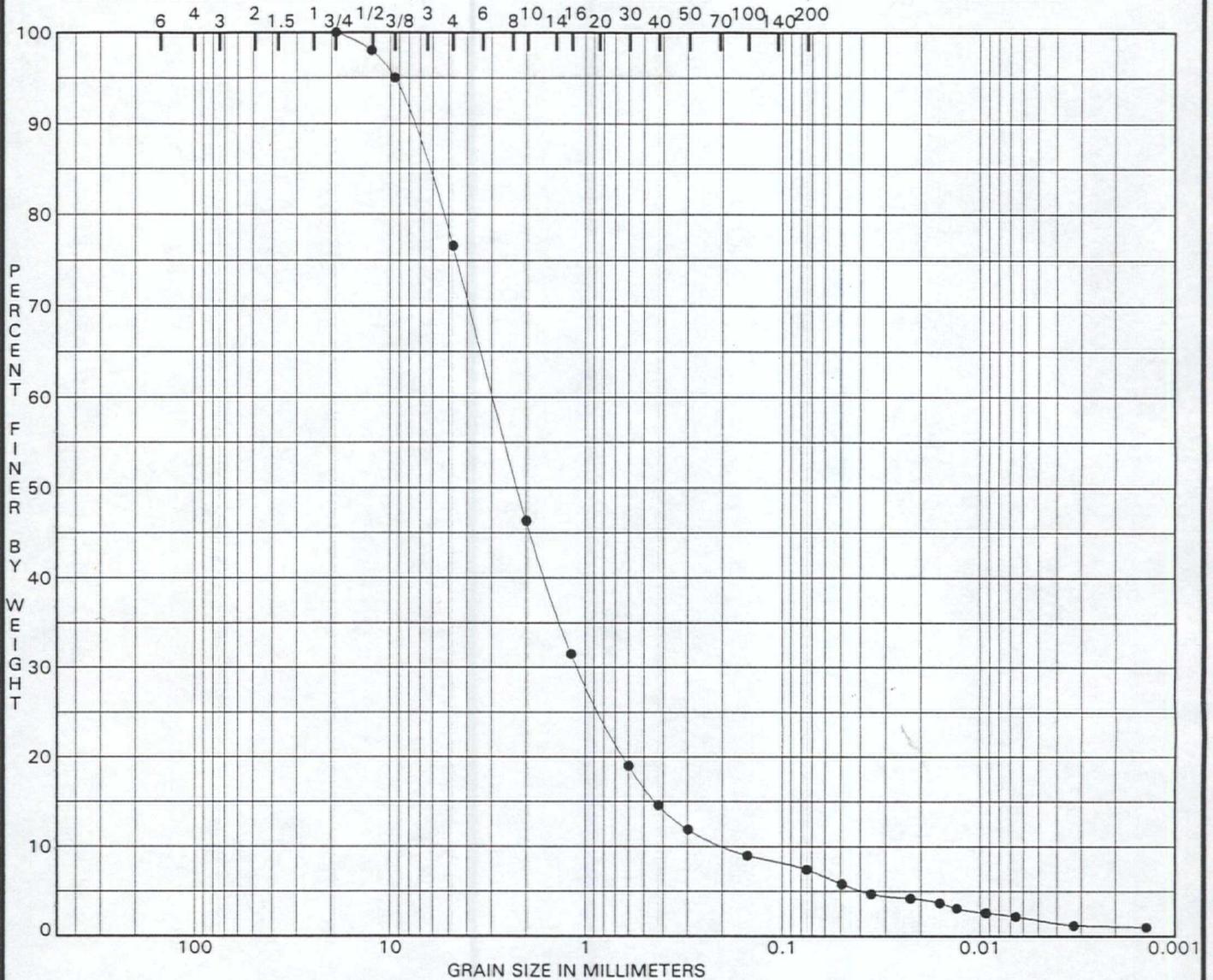
**GRAIN SIZE DISTRIBUTION CURVE**

Earth Exploration, Inc.  
 7770 West New York Street Indianapolis, Indiana 46214  
 317-273-1690 / 317-273-2250 (Fax)

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U.S. SIEVE NUMBERS

HYDROMETER

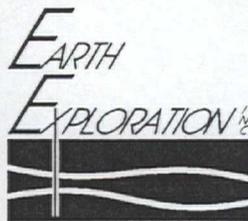


COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

<b>Sample Identification</b>	<b>USCS Classification</b>	<b>MC%</b>	<b>LL</b>	<b>PL</b>	<b>PI</b>	<b>Cc</b>	<b>Cu</b>
MW-31 GRAB 11.5'-12'	SW-SM, Well Graded Sand (visual)	--				2.10	15.5

<b>% Gravel ( &gt;4.75mm )</b>	<b>% Sand ( 4.75 to .075mm )</b>	<b>% Silt ( .075 to .005 mm )</b>	<b>% Clay ( &lt;.005mm )</b>
23.4	69.2	5.6	1.8

Grain Size (mm)	% Passing	Grain Size (mm)	% Passing	Grain Size (mm)	% Passing
64.0		0.5	16.7	0.016	3.7
16.0	99.2	0.25	11.1	0.008	2.4
4.0	70.6	0.125	8.6	0.005	1.8
2.0	46.3	0.075	7.4	0.002	1.1
1.0	28.4	0.050	5.8		



**PROJECT** Franklin-Curtis CMS  
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